

ABSTRACT OF THE DISCLOSURE

A planetary gear carrier assembly having an upgraded thrust bearing with an increased surface contact area and corresponding dynamic load rating capable of withstanding the axial thrust forces generated by engagement of the planetary gears in a General Motors 4L60, 4L60E or other similar transmission. The present carrier assembly includes an upgraded radial roller bearing having an increased number of roller elements of a greater axial length than the original equipment manufacture. The upgraded thrust bearing is accommodated by machining semicircular cutouts of a predetermined dimension and axial length coextensive with the inner surface of a central opening in the carrier housing, which is the only access for installation of the thrust bearing. The larger diameter bearing is installed within the carrier housing by passing it through the central opening in alignment with the semicircular cutouts after assembly of the carrier housing is complete.